

# **State of WAPA Building Bridges**

Tracey A. LeBeau Administrator and CEO

Annual Customer Meeting Feb. 8, 2023



## **Agenda - 2023 WAPA Customer Meeting**







Cybersecurity Update



Power Forward 2030



State of WAPA Regions



Transmission Infrastructure Program Update



Finance Update

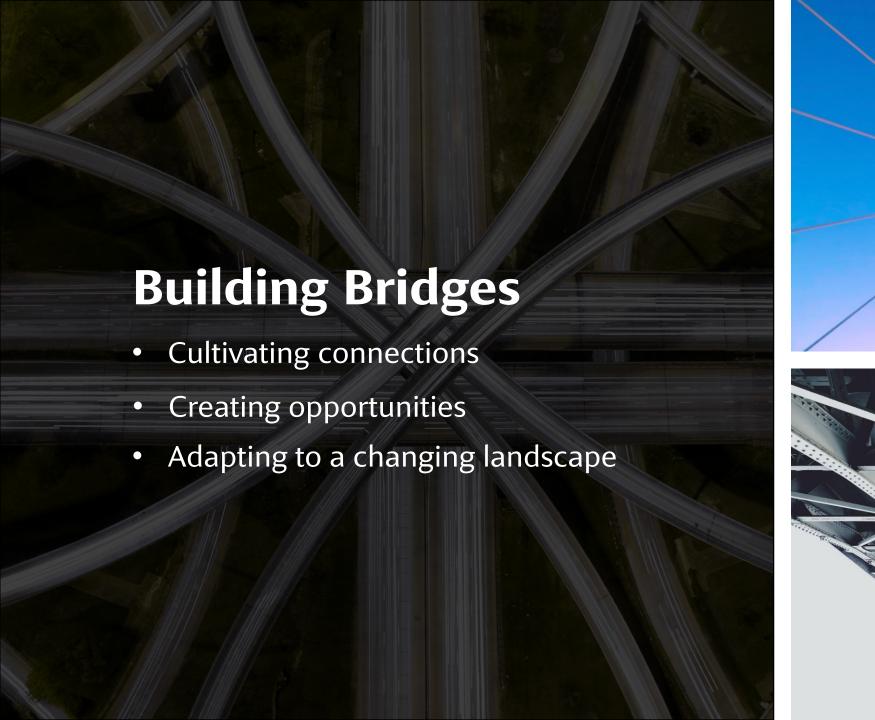


Small Group Discussions



Open House



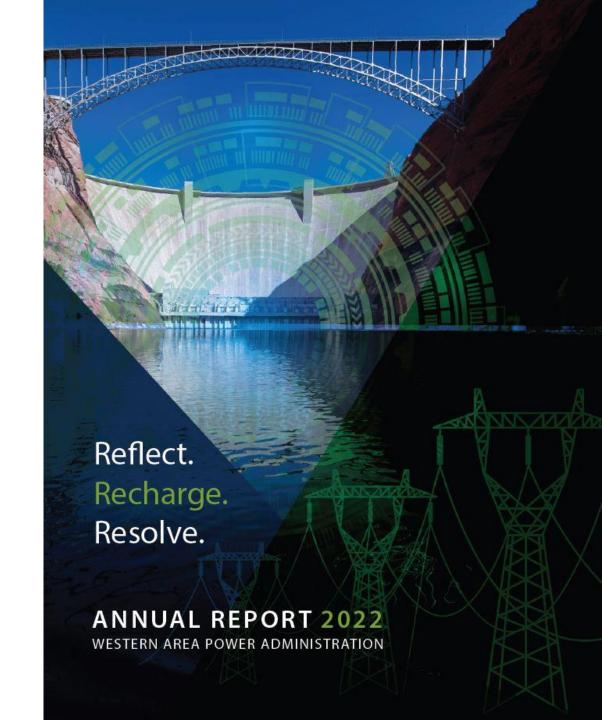






# Adapting to a changing landscape

- \$8-10 million annual savings in Central Valley Project
- Estes-to-Flatiron transmission line rebuild
- Crow Tribe easement Lovell-to-Yellowtail rebuild
- Storm response in South Dakota
- One-year milestone- real-time markets
- Udall Foundation to facilitated formal discussions





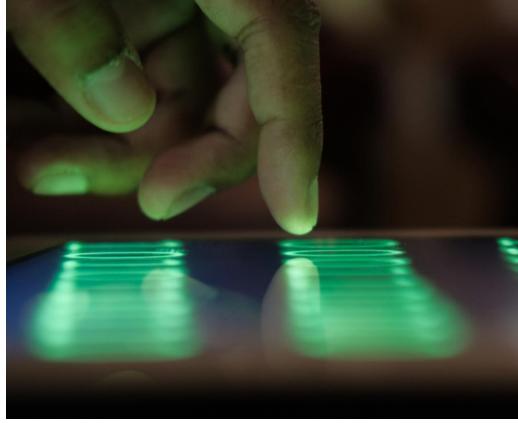
## Megadrought

- Hydropower 66% of average
- Modified CRSP rates
- PPW \$85m transferred to CRSP Basin Fund







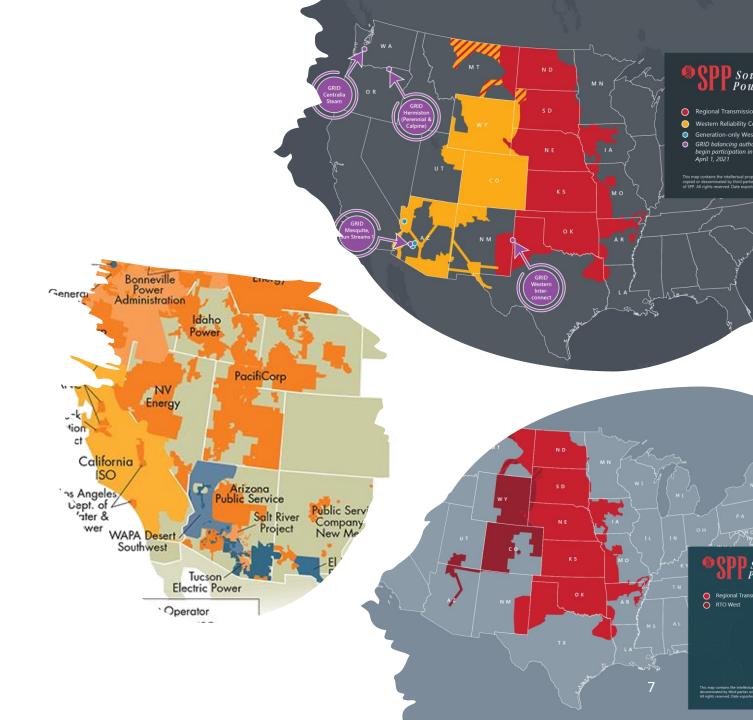


## **Physical and Cyber Security**

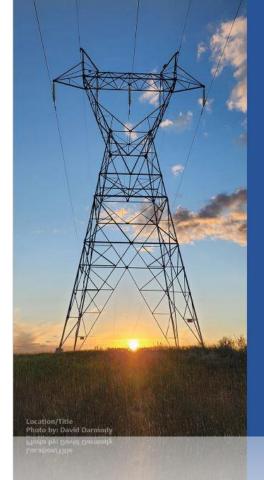


## **Energy markets**

- Several emerging proposals related to markets activities
- All regions participating in day-ahead market development opportunities







#### **Power Forward 2030**

Strategic Plan 2023 - 2030

- Safeguard a sustainable energy future
- Modernize the grid
- Invest in our employees



**Cultivating connections** 

- 30% WAPA employees physically present
- Hybrid work requires flexible mindset







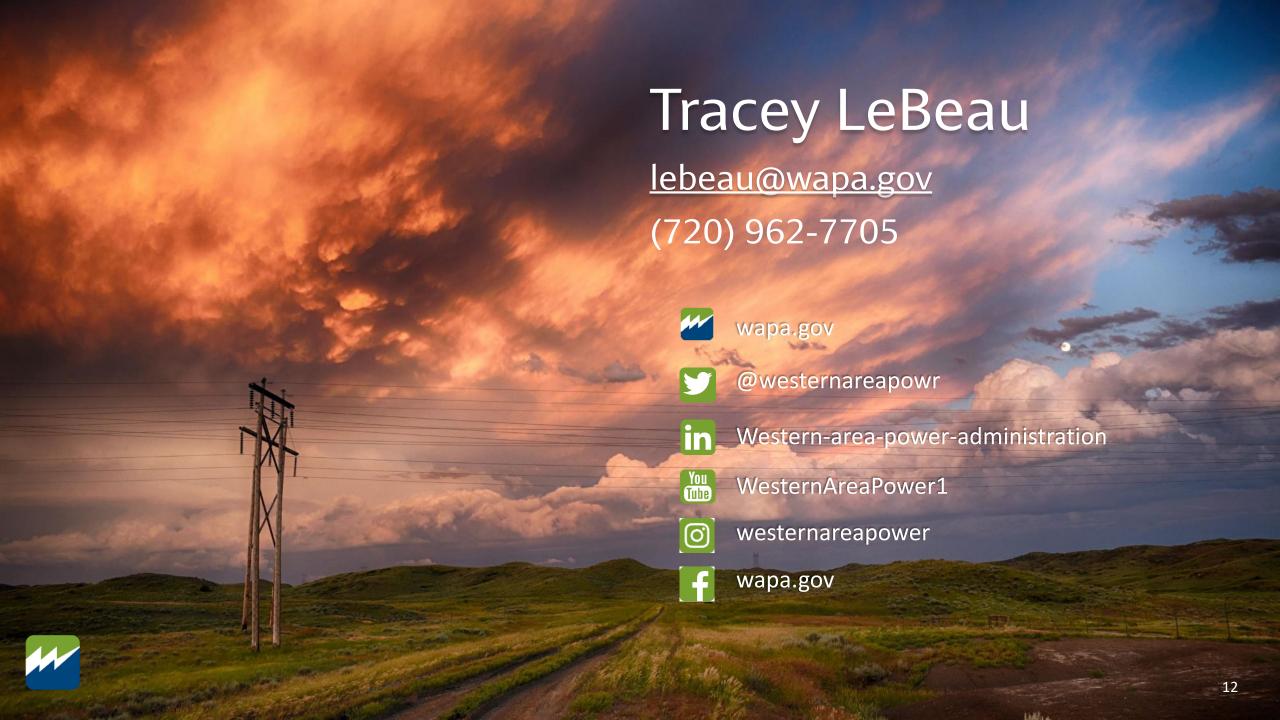


# **Sustainability Goals** 2027-2050





## **Q&A Session**





# **Current Operating Landscape**

Tina Ko

**Executive Vice President & Chief Operating Officer** 

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'The brink of disaster': 2023 is a critical year for the Colorado River as reservoirs sink toward

'dead pool'

-CNN

America's electric utilities facing transformer shortage crisis

 $How_A$ TRANSFORMERSHORTAGE THREATENS THE GRID -E&E NEWS

threatening wind chills plunge 150 million Americans into deep freeze ·Fox Weather YOSEMITE'S GIANT SEQUOIAS: WILDFIRE THREATENS WORLD'S LARGEST

Record-breaking cold, life-

Turn off nonessential power now: Emergency alert helps California avert blackouts

Inside Google's push to nail hybrid work and bring its 165,000-person workforce back to the office part-time

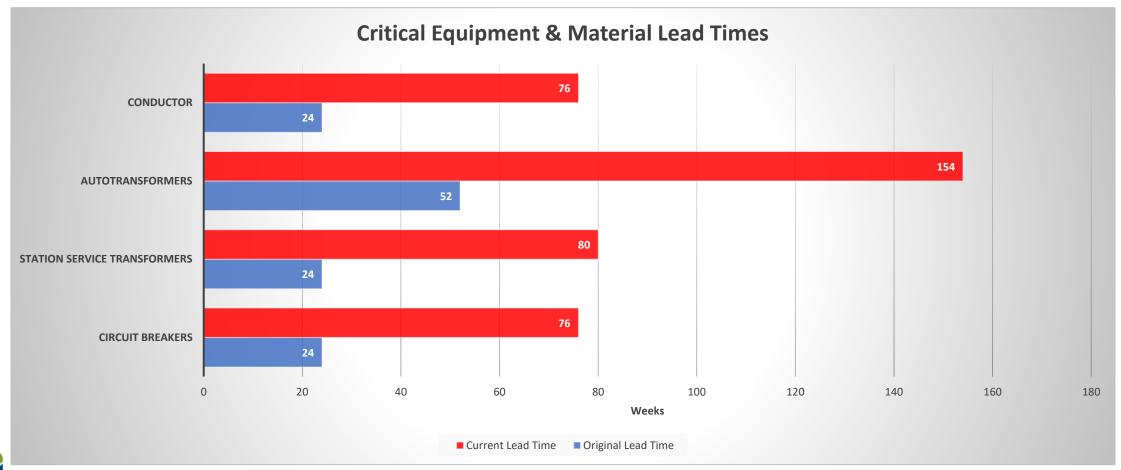
18 million people to be hit by ice storms, hazardous winter weather' this week, forecasters predict

FBI called to investigate firearms attacks on Duke Energy substations in North Carolina; 40K without power

-Utility Dive



## **Critical Equipment & Materials Lead Times**





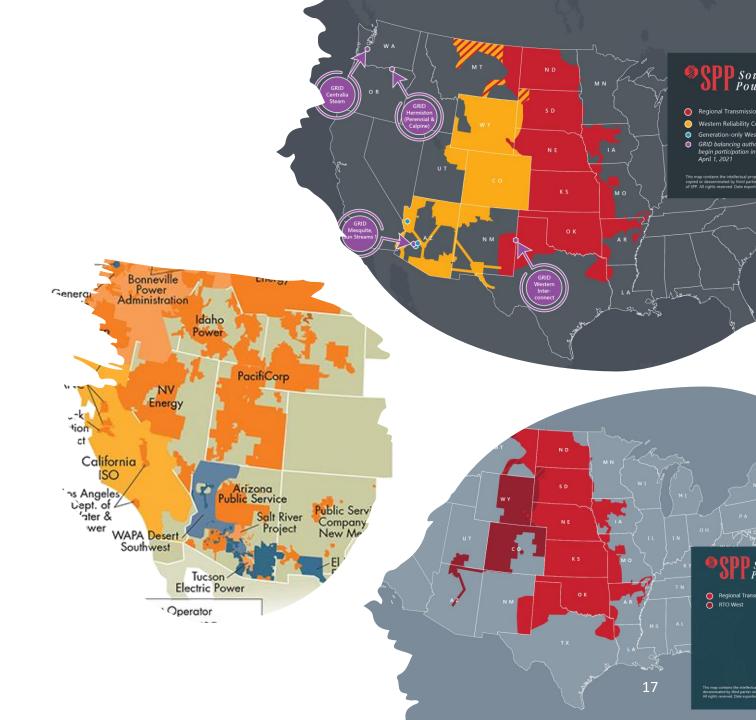
## **Physical Security**

- Ballistic incidents at various asset types are increasing each year.
  - Transmission assets and substations are the top two of eleven asset types experiencing ballistic incidents.
  - Ballistic incidents at substations averaged 10.6 per year from 2016-2021, then increased to 23 in 2022.
- Reported impacts to the grid from substation intrusion and vandalism decreased significantly from 2020 (12) to 2021 (3), but almost doubled when comparing 2020 and 2022 (21).



## **Energy markets**

- Several emerging proposals related to markets activities
- All regions participating in day-ahead market development opportunities







## **Q&A Session**

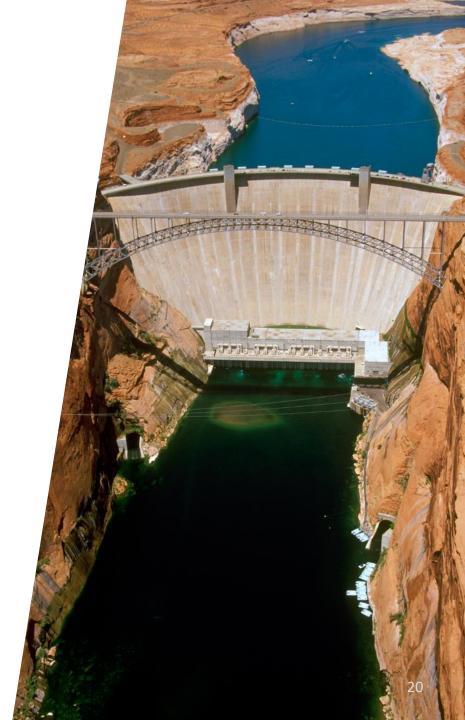




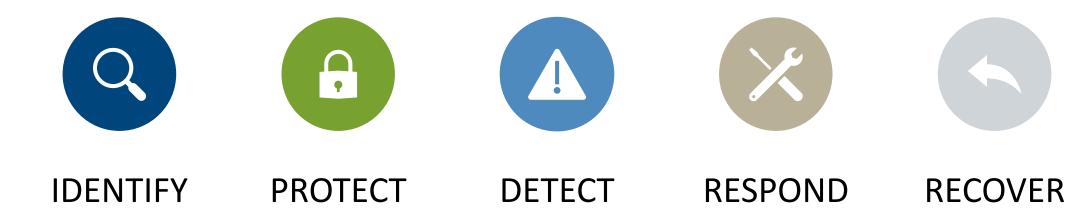
## **Cybersecurity Update**

Mike Montoya
Senior Vice President & Chief Information Officer

Annual Customer Meeting Feb. 8, 2023



## Cybersecurity program priorities





# Recent cyber attacks

- Infrastructure sector
- Proximity to WAPA
- Diversity of attacks







# **Current issues**

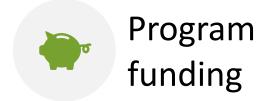
- Exponential technologies
- Supply chain risk
- Regulations and mandates





## **Takeaways**









## **Q&A Session**

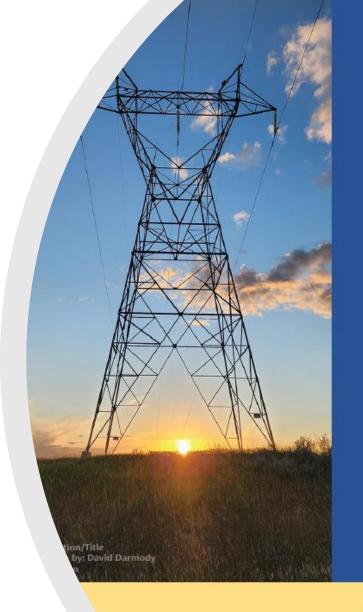


# **Power Forward 2030**WAPA's New Strategic Plan

Kerry Whitford Chief Strategy Officer

Annual Customer Meeting Feb. 8, 2023





## **Power Forward 2030**

Strategic Plan 2023 - 2030





## Strategic planning is crucial

- A vision without a strategy remains an illusion. –Lee Bolman
- A strategy is necessary because the future is unpredictable. –Robert Waterman
- Without strategy, execution is aimless. Without execution, strategy is useless. –Morris Chang



Confirmed our steadfast mission, focused the vision

#### Mission

Safely provide reliable, cost-based hydropower and transmission to our customers and the communities we serve.

#### Vision

Empowering communities, securing a resilient energy future.

#### **Core Values**

Listen to understand, speak with purpose. | Seek. Share. Partner.

Respect self, others, and the environment. | Do what is right. Do what is safe.

Be curious, learn more, do better. Repeat. | Serve like your lights depend on it.

## Our Value Proposition



Affordable, low-cost hydropower Energy delivery and grid reliability Industry expertise



**Stakeholders** 

Trusted partner-bridge builder



**Employees** 

Rewarding work
Professional growth

Supportive culture and community



#### Strategic goals derived from value proposition

#### **Value proposition**

#### Customers

- Affordable, low-cost hydropower
- Reliable energy delivery
- Industry expertise

#### **Stakeholders**

 Trusted partner; bridge builder

#### **Employees**

- Rewarding work
- Professional growth
- Supportive culture and community

#### Strategic goals

## Safeguard a sustainable energy future

Our energy products and services are of high value and meet the needs of our customers, today and in the future.

## Modernize the grid

We enable grid modernization to ensure reliable and resilient energy transmission.

#### Invest in our Employees

Employees thrive in WAPA's inclusive and diverse workplace and innovative, growth-oriented culture, developing the skills and expertise to succeed in an evolving industry.

# 18 Months of Significant Collaboration

688	Employee survey responses
171	Stakeholder survey responses
29	Stakeholder/customer interviews
11	Internal focus groups
15+	SWOT brainstorm sessions
	(with over 65 participants)
10	Let's Talk Strategy sessions
	307 Employee participants
	Employee participants
	76 Stakeholder participants
	Stakeholder participants

## **SWOT Analysis**

"Strengths, Weaknesses, Opportunities and Threats"

Internal

## External

#### Strengths (S)

Customer Focus & Engagement

Core Mission

Institutional Knowledge

Strong Culture

Capital Planning

#### Opportunities (O)

Markets
Emerging Technologies
Hydropower Advocacy
Transmission Infrastructure Opportunities
Stakeholder Partnerships & Relationships

#### Weaknesses (W)

Uncertain Funding
Strategic Prioritization
Aging Infrastructure
Knowledge Transfer and Retention
Resilience Planning

#### Threats (T)

Drought & Adverse Conditions

External Impacts on Rates

Cyber & Physical Security Threats

Complex & Rapidly Changing Industry



# Let's Talk Strategy Sessions – Overall Impression

#### **Most Excited**:

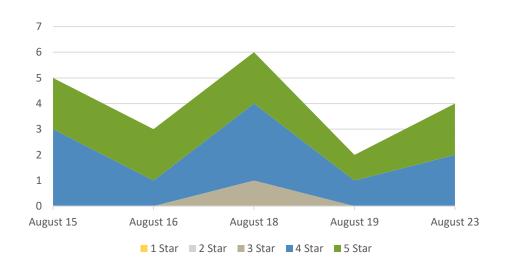
- Champion/Preserve Hydropower (7)
- Reliable (4)
- Customer Focused (3)
- Mission Focused (3)

#### **Gaps**

- Drought/Climate (4)
- Preference Customers (3)

#### Customer/Stakeholder, 4.4 Stars







### **Customer Prioritization**



Customers and stakeholders consistently prioritized these areas as their top goal and objectives.





## Power Forward 2030 – Sets WAPA's Strategic Destination

#### STRATEGIC GOALS

Safeguard a Sustainable Energy Future

Modernize the Grid Invest in Our Employees

#### STRATEGIC OBJECTIVES



#### Customers

Prepare and adapt to a changing energy landscape Provide excellent customer service Preserve hydropower value Leverage strategic partnerships



#### People/Culture

Embrace inclusion and diversity Cultivate our value-based, high-performance culture Grow skills and expertise

Integrate strategic workforce management



#### **Resource Stewardship**

Optimize investments in system reliability Improve cost efficiency

Facilitate transmission solutions



#### **Processes**

Mature governance, risk management and compliance

Optimize service delivery



# Strategic destination – 2023 - 2030

Version 1.0, February 2023

### Customers

#### Prepare and adapt to a changing energy landscape

- > Key Strategic Initiative: Udall Effort Engage with customers on long-term drought impacts
  - Initiative Champion: Colorado River Storage Project Manager

#### Provide excellent customer service

- > Key Strategic Initiative: Renew customer relationships and increase understanding of needs
  - Initiative Champion: Upper Great Plains Regional Manager

#### Preserve hydropower benefits and value

- > Key Strategic Initiative: Educate stakeholders on the value of hydropower
  - Initiative Champion: Assistant Administrator for Corporate Liaison



## **Resource Stewardship**

#### Optimize investments in system reliability

- > Key Strategic Initiative: Create a strategic grid modernization plan that prioritizes investments
  - Initiative Champion: Executive Vice President and Chief Operating Officer

#### Improve cost efficiency

- > **Key Strategic Initiative:** Optimize FTE resource utilization
  - Initiative Champion: Chief Financial Officer



## **2030 Strategic Plan Development**



& Analysis

**Formulation** 



Vision

Planning



## **Q&A Session**





## **Coffee Break & Networking**

Please return by 10:15 a.m. MST



## **State of WAPA Regions**

All WAPA Regional Managers

Annual Customer Meeting Feb. 8, 2023



## Jonathan Aust

aust@wapa.gov
(970) 461-7354

## Rodney Bailey

<u>rbailey@wapa.gov</u> (801) 524-4007

## **Bart Barnhart**

barnhart@wapa.gov

(970) 461-7201

## Lloyd Linke

Iloyd@wapa.gov
(406) 255-2800

## Jack Murray

jmurray@wapa.gov

(602) 605-2453





## **Q&A Session**



## Transmission Infrastructure Program Update

Paul Schwabe Senior Vice President & TIP Manager

Annual Customer Meeting Feb. 8, 2023



## **TIP Portfolio Strategy**



## Transmission At the Core of TIP's Mission

- Brattle est. ~\$18 to \$25B in annual new transmission nationally through 2030 (pre-IRA, not all TIP eligible)
- CAISO projects +\$30B in and new upgraded high voltage bulk transmission by ~2040 in CA alone



#### Supplemented by Energy Storage and Related Facilities

- BNEF forecast 30GW/111GWh in new U.S. energy storage by 2030
- Smaller, shorter timelines, and more transactional volume



**Expanding to New Opportunities and Needs** 

- "Offshore onshore" grid integration
- Long-duration energy storage (pumped hydro, compressed air energy storage, diversity in battery chemistry and duration)

Forming a diversified, steady, market-relevant, and customer-valued loan portfolio



## Power Forward 2030: Resource Stewardship (TIP)

Objective 3.3

Facilitate transmission solutions.

We leverage federal and non-federal financial and technical resources to expand and modernize the grid.

#### **Intended Results:**

- Through the Transmission Infrastructure Program, we provide low-cost capital through WAPA's \$3.25 billion borrowing authority to facilitate the delivery of renewables to the grid.
- We facilitate development of new and upgraded transmission lines and related facilities to strengthen the grid.
- Our expertise and experience contribute to effective transmission solutions for the West.

#### Key Strategic Initiative:

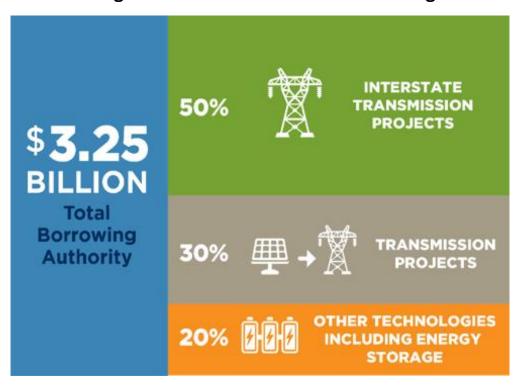
- We target and facilitate the development of transmission and related facilities, including energy storage, that directly support the grid and customer needs.
  - Initiative Champion: Transmission Infrastructure Program Manager
    - Initiative Support: Desert Southwest Regional Manager



#### TIP FY23 Focus Areas

- Strengthening existing and expanding new partnership opportunities to grow TIP pipeline
- Facilitating Mead expansion statement of interest (SOI) responses and follow-on activities
- Adapting to finance industry changes from IRA and higher interest rate and inflationary environment
- Revalidating TIP portfolio allocations including evaluation of a customer nexus target
- Improving TIP operations and efficiencies
- Enhancing TIP informational and marketing materials
- Meeting with customers!

## **Revalidating Project Portfolio Target Allocations Including Evaluation of Customer Nexus Target**







## **Q&A Session**





## **Mission Focused Financing:**

Providing Stability in the Decade Ahead

Michael D. Peterson
Senior Vice President & Chief Financial Officer

Annual Customer Meeting Feb. 8, 2023





## **Progress realized during 2022**

Leveraging financial discipline to meet WAPA's financial needs in difficult times

OCFO Department Staffing	Rebounded from 24.6% vacancy rate in mid '22 to realize full staffing Modified org structure prioritizes development & succession plans Championing diversity with 60% female & 30% minority staffing
Budget & Analysis	Revised PPW reserves target & secured \$1 billion in additional funds  Deployed project level budgeting to improve plan execution  Implemented standardized budgeting beginning w/ FY23 budget cycle
Financial Systems	Robotic Process Automation of acts. payable & emp. reimbursements Successful transition of WAPA's budget system, BFIT, to cloud Early implementation of Treasury's G-Invoicing payment system
Finance & Accounting	FY21 financial reporting received an unqualified audit opinion FY22 financial audit scheduled for completion in early March FY22 Financial transparency & narrative posted to <i>The Source</i>
Governance & Policy	Completed Biennial Review of WAPA's pricing of materials & services  Strengthened controls in WAPA's financial reporting system, FIMS  Proactive administration of WAPA financial policies for risk mitigation



## WAPA's use of IIJA funding paved the way for Omnibus

Funding a mission-critical need with proper governance, timely deployment and full transparency

#### IIJA - \$500 million of additional funding for PPW reserves, authorized Nov. 2021

- FUNDING PARAMETERS: Provided \$500M of <u>reimbursable funding</u> for WAPA's PPW reserves to be used <u>exclusively</u> for PPW costs incurred throughout WAPA's footprint
- SCOPE OF FUNDING: Congress directed WAPA to address <u>PPW funding needs for FY 2022 and FY 2023</u>
- IMPLEMENTATION: IIJA passed on Nov. 15, 2021, with implementation by WAPA on Jan. 1, 2022
- GOVERNANCE: IIJA mandated oversight payments of \$500k to DOE IG and DOE OCFO (\$1 million total)
- TRACKING: WAPA established 2 unique DOE fund codes (CROM and CRSP) to track execution
- ALLOCATION: \$85 million to CRSP's Basin Fund (which is a revolving facility) for PPW costs incurred, with the balance allocated on a first-come, first-served basis in CROM
- EXECUTION: \$382 million, or 76% of total funding, was obligated between Jan. 1 and Sep. 30, 2022
- PROJECTIONS: WAPA forecasts the <u>balance of \$118 million to be obligated before Sep. 30, 2023</u>
- RETURNS TO TREASURY: \$260 million, which is 52% of total IIJA funding and 72% of FY2022 execution
- TRANSPARENCY: Link to IIJA funds reconciliation for FY2022 posted on *the Source*



2023 Omnibus Appropriations Bill - \$520 million of supplemental funding for PPW reserves, authorized Dec. 2022

## Risk management with DOE, OMB and Congress

Communicating the operational impacts of WAPA's funding needs not being met

#### **Impacts of Insufficient Funding for PPW Program:**

- WAPA default on contractual power delivery commitments,
- WAPA's customers would need to find alternate sources for power,
- Potential for sharp increase in pricing and uncertain availability of power for WAPA's customers,
- WAPA could face fines and penalties for defaulting on contractual obligations,
- Puts WAPA's reputation and participation in markets at risk, and
- Jeopardizes the ability of WAPA to repay its federal debt obligations should customers be compelled to seek more reliable alternatives.



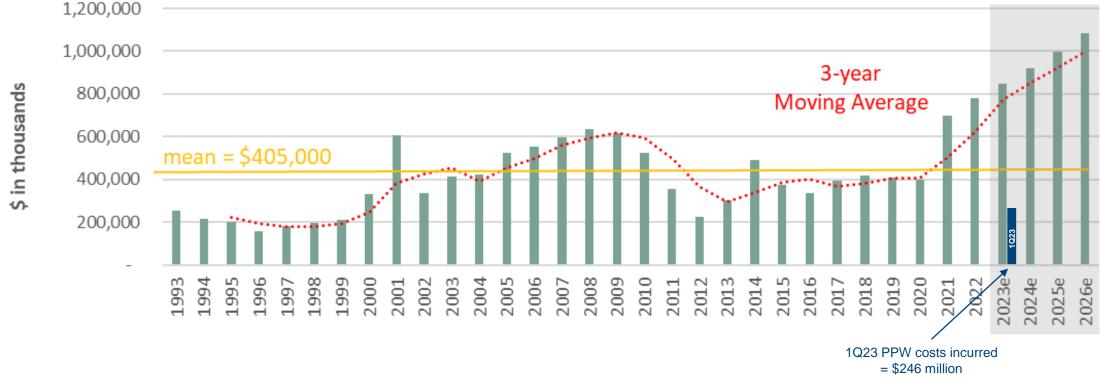




## Historic costs illustrate the severity of drought ahead

Extreme drought combined with system-wide impact compounds financial need







### WAPA's data-driven PPW reserves target assessment

Increase is attributable to greater quantities of MWh at higher prices per MWh

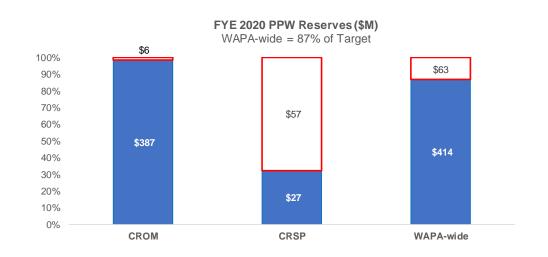
WAPA's PPW reserves need assessment is based on 30+ years of realized PPW cost data across WAPA's power systems. Based on this assessment, WAPA has determined that to calibrate PPW reserves to prevailing power market conditions, targeted PPW reserves should **increase from \$477 million to \$1.4 billion**. Key drivers for the revising the target balances established in 2015/2016 include:

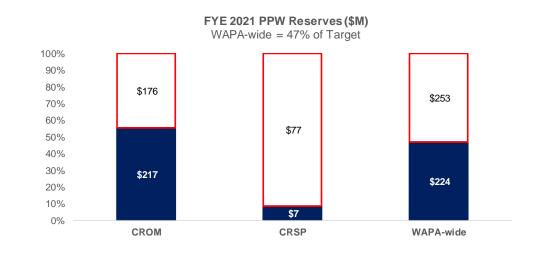
- Need to <u>mitigate against multiple power systems being impacted by adverse PPW conditions simultaneously,</u>
- Receipt authority constraints spanning multiple years creating the need for increased reserves,
- Using 30+ years of actual PPW cost experience indicates greater risk mitigation is necessary to account for the high level of volatility seen in WAPA's PPW program and provide an additional level of resilience for unforeseen climate and market events,
- Without supplemental funding from the Omnibus Appropriations Bill and increased receipt authority in FY24,
   PPW reserve balances were projected to fall below \$300 million by mid-year FY 2023.



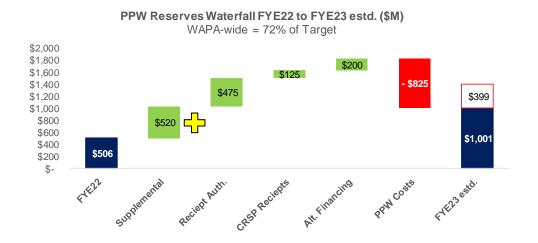
#### PPW reserves FY 2020 to FY 2023e

#### Funding from IIJA and 2023 Omnibus Appropriations Bill offsets rising PPW costs







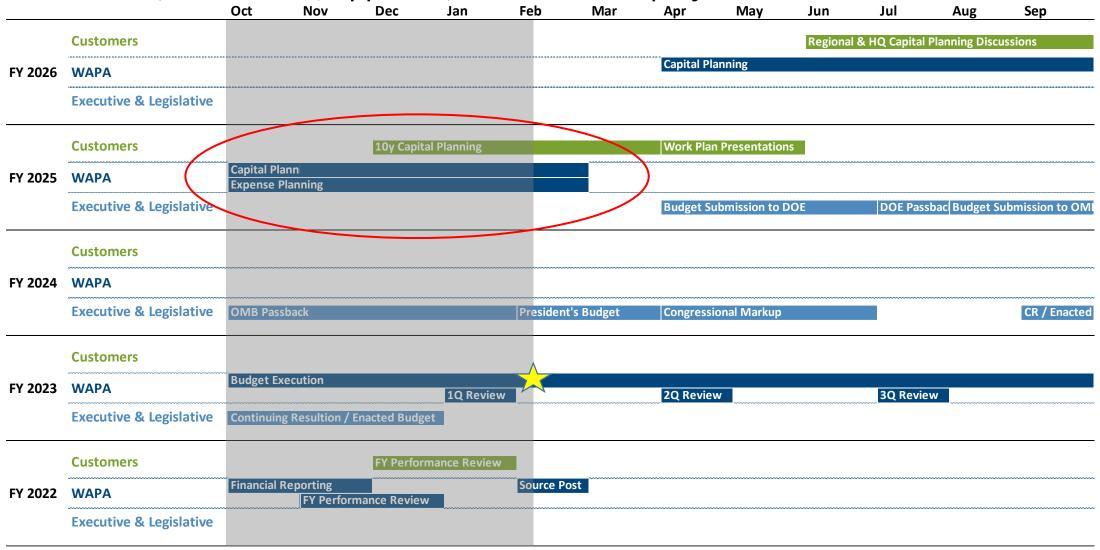






## The many stages of a budget

Formulation, submission, approval, execution and performance review





## FY 2025 Budget guidance

Formulation, submission, approval, execution and performance review



FTE & Labor

#### FTE

Remain flat at 1,521

#### Labor

- Assume full FTE execution
- Apply data-driven labor rates
- Wage Board (WB) & Administratively Determined (AD) salaries determined by region
- Cash awards based on DOE guidance
- OT and incentives treated as discretionary





Capital

#### **Evaluation**

- Additions & Major Upgrades require Project Initiation Documents (PIDs)
- ≥\$500K projects loaded into budget system

#### **Feasibility assessment**

 Requests >15% of historical execution require further justification

#### **Project funding**

- Appropriation assumptions will be consistent with TCC process
- Consistent with rate, cash flow estimates and customer coordination



Discretionary & Other

#### **Discretionary O&M and Indirect**

- Increases expected to be offset in discretionary spend areas
- Limited to historical expenditures
   + 15%
- Travel & Training allowable at FY24 levels

#### Other considerations

- Rate impact assessment
- Work for others revalidation
- Safety, physical, & cybersecurity needs remain a top priority
- PPW should be base-case assumptions for pricing and volume

## FY 2024 WAPA-wide workplan

Financial discipline to mitigate the challenges of a difficult operating environment

#### FY 2017-2024 Summary

3.0% annual growth (CAGR)

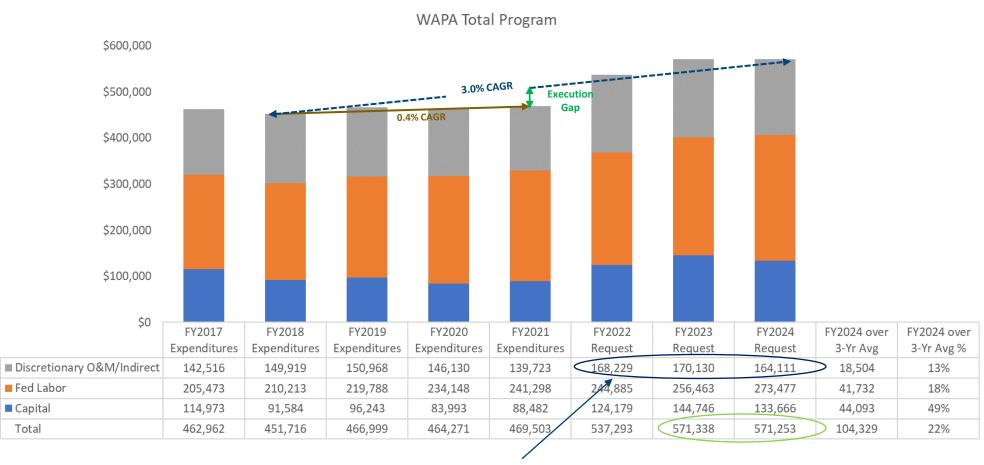
#### 3 budget categories:

- a) Capital (approved 11/21)
- b) Labor
- c) Discretionary

Execution Gap = \$ Amount
by which budget plans
exceed historical expenditures

#### FY 2023-2024 Summary

- a) Capital = -7.7%
- b) Labor = 6.6% (a + b = 1.5%)
- c) Discretionary = -3.5%
- d) Total = 0.0%, or -\$85k





Holding the line on discretionary spending for 3 consecutive years

#### Labor: FY 2013-2025e trends

#### Growth in benefits continues to drive rising labor expense

#### **FY13 thru FY22 Labor Growth**

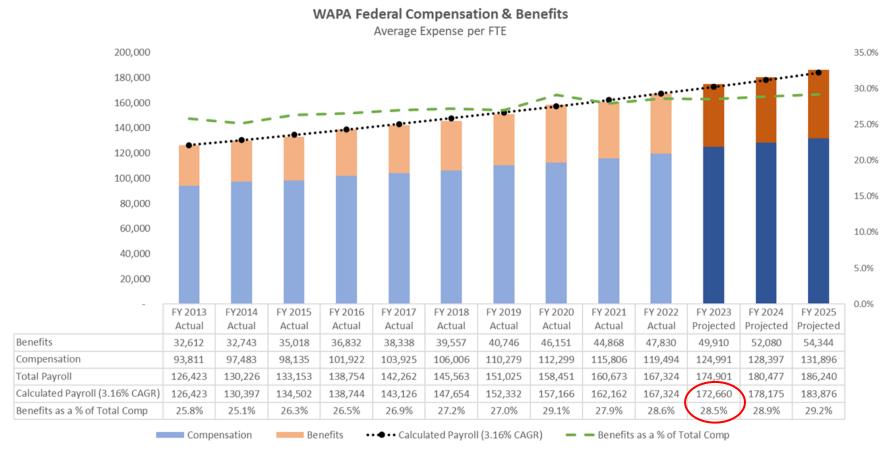
- 1) Benefits = 4.35%
- 2) Salary & Wages = 2.73%
- 3) Total Labor = 3.16%

#### **Key Drivers of Growth**

- a) Benefits
- b) Locality Pay
- c) Cost of Living Adjustments
- d) Merit Increases & Promotions

#### **Basis for FY25 Labor Rates**

- WAPA's FY25 labor was developed using FY13-22 growth trends and factored in known and/or anticipated compensation increases that deviated from the trend
- ➤ In FY22, WAPA's benefits as a % of total compensation were 28.6%





## Capital: Formulation, performance & optimization

Multi-functional peer reviews, feasibility assessments & rate alignment

#### 10-year plan totals

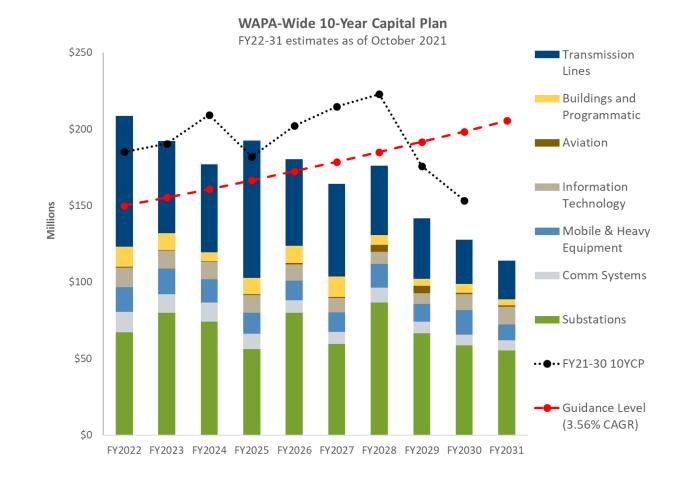
- \$2B investment (including SLTP)
- Decrease of \$242M from previous plan
- FY22 13% above previous plan
- FY24 15% lower than previous plan

#### **Rate window**

• Rate window is 3% lower than previous plan

#### **Appropriations**

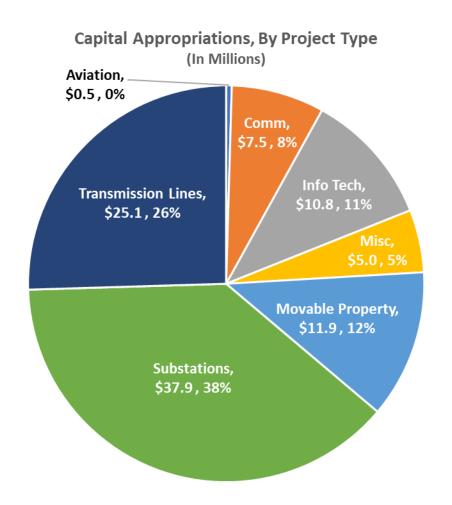
Consistent with President's FY 2022 Budget

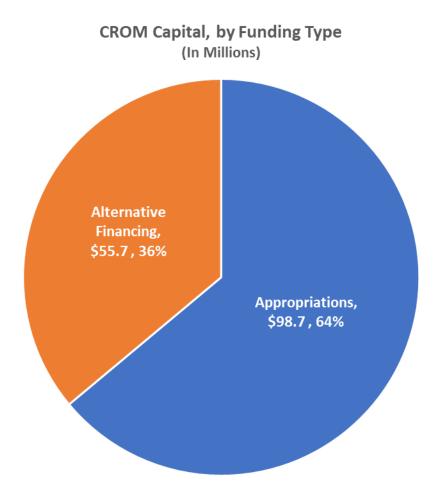




## Capital detail: Appropriations project & funding types

Transmission lines & substations garner a majority of appropriations (nearly 2/3<sup>ds</sup>)

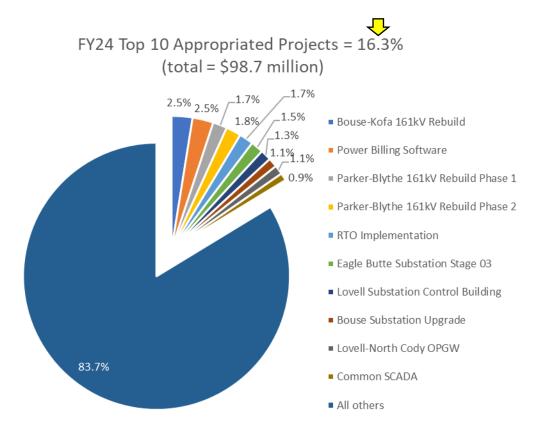


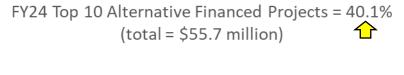


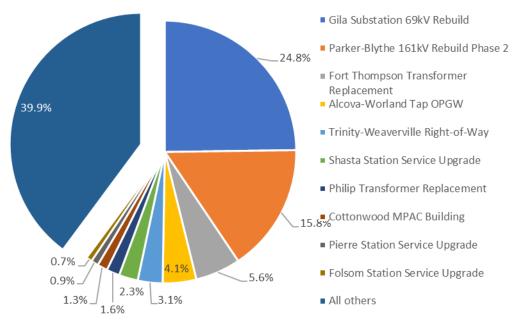


## Capital detail: Appropriations & alternative financing

Appropriations are well diversified while Alternative Financed are more top heavy







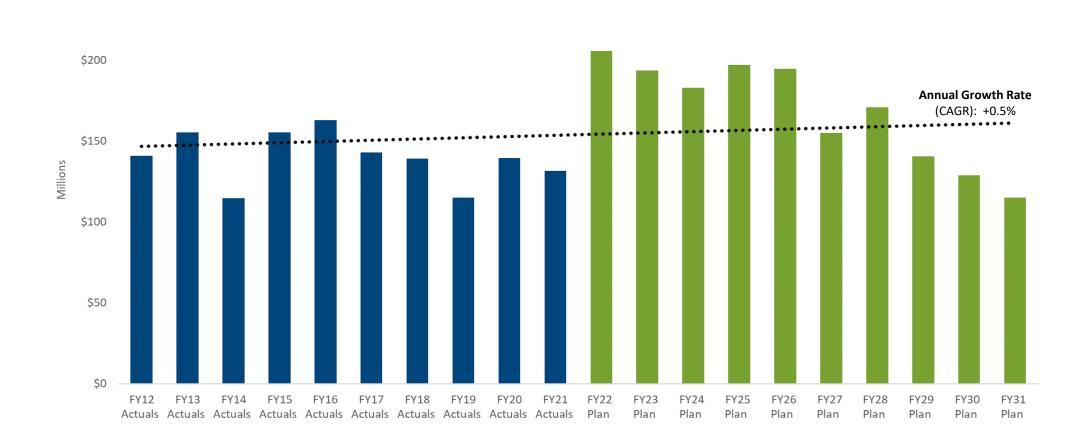


### 10-year capital plan

\$250

Using historic execution and trend analysis to frame forward projections

Total Capital Program
Rate Impacting Only (CROM & CRBPMF)





## Discretionary: FY 2024 workplan

Prioritizing must-have budget items at the expense of nice-to-haves

#### FY 2017-2024 Summary

1.9% annual growth

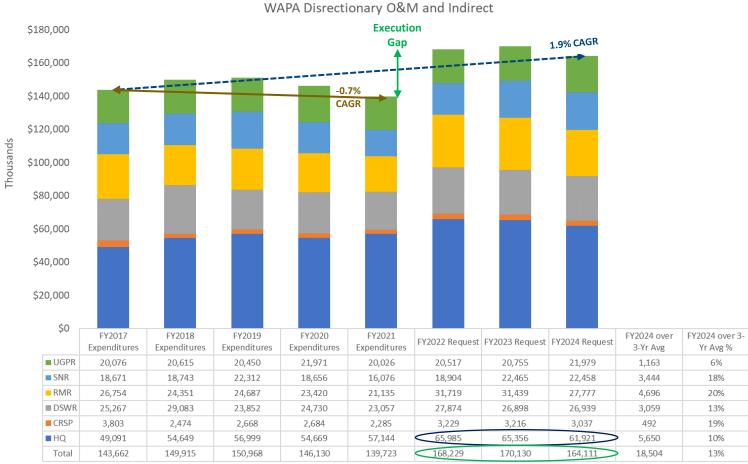
6 budget categories:

- a) 5 Regions
- b) HQ

Execution Gap = Budget plans exceed historical expenditures

#### Compound Annual Growth Rate FY2017-21 FY2017-24 FY2023-24

	FY2017-21	FY2017-24	FY2023-24
UGPR	-0.1%	1.3%	5.9%
SNR	-3.7%	2.7%	0.0%
RMR	-5.7%	0.5%	-11.6%
DSWR	-2.3%	0.9%	0.1%
CRSP	-12.0%	-3.2%	-5.6%
HQ	3.9%	3.4%	-5.3%
Total	-0.7%	1.9%	-3.5%







## **Q&A Session**



## Close of Formal Meeting

Tina Ko
Executive Vice President & Chief Operating Officer

Annual Customer Meeting Feb. 8, 2023





